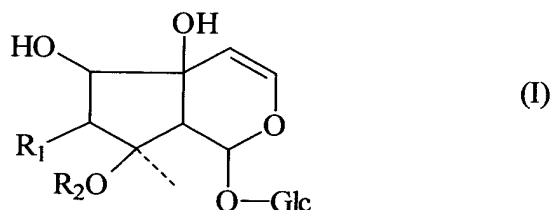


ABSTRACT OF DISCLOSURE

In the present invention, it is discovered that a compound of formula (I) has a potent effect for treatment of osteoporosis, arthritis and ruptured disc:



in which R₁ represents hydrogen atom or alkyl group and R₂ represents hydrogen atom or cinnamoyl group. Therefore, the compound of formula (I) can be used for prevention and treatment of osteoporosis, arthritis and ruptured disc. Thus, the present invention provides a pharmaceutical preparation containing as an effective component a compound of formula (I) in combination with a pharmaceutically acceptable auxiliary, diluent, isotonic agent, preservative, lubricant and solubilizing aid, which is formulated in the form of a pharmaceutically acceptable preparation and has a potent effect for osteoporosis, arthritis and ruptured disc.